

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 99.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-026348**Date Inspected:** 12-Apr-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1500**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 300**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC) Changxing Island **Location:** Shanghai, China**CWI Name:** Lv Li Qing**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Vikram Singh was present during the times noted above for observations relative to the work being performed at ZPMC.

WELDING

OBG Bay 14

This QA Inspector randomly observed the following work in progress:

Shielded Metal Arc Welding (SMAW)

This QA Inspector observed the welding operation per the SMAW process on a weld joint identified as SEG3020Z-006 located on anchor plate to longitudinal diaphragm of the OBG Segment 14W. The welder is identified as 037779. ZPMC Quality Control (QC) is identified as Mr. Zhang Lin. The welding variables recorded by QC appeared to comply with WPS-B-P-2214-Tc-U4b-FCM-1.

This QA Inspector observed the welding operation per the SMAW process on a weld joint identified as SEG3020E-015 located on floor beam flange to deck panel diaphragm of the OBG Segment 14W. The welder is identified as 069896. ZPMC Quality Control (QC) is identified as Mr. Zhang Lin. The welding variables recorded by QC appeared to comply with WPS-B-P-2114-Tc-U4b-FCM-1.

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This QA Inspector observed the welding operation per the SMAW process on a weld joint identified as SEG3020BB-038 located on SA to anchor plate of the OBG Segment 14W. The welder is identified as 066261. ZPMC Quality Control (QC) is identified as Mr. Zhang Lin. The welding variables recorded by QC appeared to comply with WPS-B-P-2214-Tc-U4b-FCM-1.

This QA Inspector observed the welding operation per the SMAW process on a weld joint identified as SEG3020AQ-030 located on anchor plate to anchor plate of the OBG Segment 14W. The welder is identified as 067829. ZPMC Quality Control (QC) is identified as Mr. Zhang Lin. The welding variables recorded by QC appeared to comply with WPS-B-P-2214-Tc-U4b-FCM-1.

This QA Inspector observed the welding operation per the SMAW process on a weld joint identified as SEG3020L-028 located on floor beam to deck plate of the OBG Segment 14W. The welder is identified as 066398. ZPMC Quality Control (QC) is identified as Mr. Zhang Lin. The welding variables recorded by QC appeared to comply with WPS-B-P-2212-Tc-U4b-FCM-1.

Flux Cored Arc Welding (FCAW)

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as SEG3020F-019 located on deck panel diaphragm to deck panel diaphragm at PP128 of the OBG Segment 14W. The welder is identified as 066673. ZPMC Quality Control (QC) is identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS-B-T-2233-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as SEG3020W-010 located on floor beam flange to deck panel diaphragm of the OBG Segment 14W. The welder is identified as 048433. ZPMC Quality Control (QC) is identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS-B-T-2232-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as SEG3020E-017 located on deck panel diaphragm to deck panel diaphragm of the OBG Segment 14W. The welder is identified as 201215. ZPMC Quality Control (QC) is identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS-B-T-2233-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as SEG3020T-283 located on deck panel diaphragm to deck panel diaphragm at PP127.3 of the OBG Segment 14W. The welder is identified as 045240. ZPMC Quality Control (QC) is identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS-B-T-2233-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as SEG3020R-012 located on deck panel diaphragm to deck panel diaphragm of the OBG Segment 14W. The welder is identified as 067949. ZPMC Quality Control (QC) is identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS-B-T-2233-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as TR3003TR1-001-006 located on traveler rail. The welder is identified as 066695. ZPMC Quality Control (QC) is

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identified as Mr. Sun Tianliang. The welding variables recorded by QC appeared to comply with WPS-B-T-2132-ESAB.

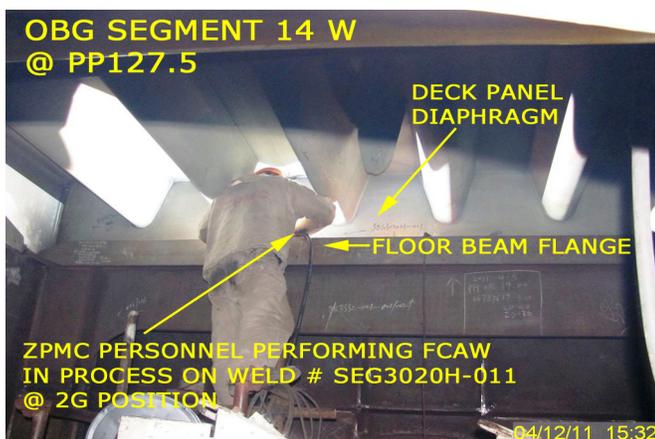
This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as TR3027TR1-001-007 located on traveler rail. The welder is identified as 045175. ZPMC Quality Control (QC) is identified as Mr. Sun Tianliang. The welding variables recorded by QC appeared to comply with WPS-B-T-2232-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as TR3027TR1-001-011 located on traveler rail. The welder is identified as 066674. ZPMC Quality Control (QC) is identified as Mr. Sun Tianliang. The welding variables recorded by QC appeared to comply with WPS-B-T-2232-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as TR3027TR3-001-011 located on traveler rail. The welder is identified as 067876. ZPMC Quality Control (QC) is identified as Mr. Sun Tianliang. The welding variables recorded by QC appeared to comply with WPS-B-T-2232-ESAB.

This QA Inspector observed the welding operation per the FCAW process on a weld joint identified as SEG3020H-011 located on floor beam flange to deck panel diaphragm at PP127.5 of the OBG Segment 14W. The welder is identified as 062708. ZPMC Quality Control (QC) is identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS-B-T-2232-ESAB. For more details please see attached photo below:

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.



Summary of Conversations:

No relevant conversations were reported on this date.

Comments

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This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Singh, Vikram	Quality Assurance Inspector
Reviewed By:	Patterson, Rodney	QA Reviewer
